

1FW16

## CRF Errors Edited by the STIC Systems Branch

Serial Number: 09/747,287A

CRF Edit Date: 8/13/04  
Edited by: AS



Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line.

Corrected the SEQ ID NO. Sequence numbers edited were:

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Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

---

Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

---

Inserted mandatory headings/numeric identifiers, specifically:

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Moved responses to same line as heading/numeric identifier, specifically:

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Other:

Sequence 9 - corrected spelling of "Ala" as "Xaa"  
Explanation for location 3

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IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/747,287A

DATE: 08/13/2004

TIME: 11:40:58

Input Set : A:\PTO.AMC.txt  
 Output Set: N:\CRF4\08132004\I747287A.raw

pp 6-7

3 <110> APPLICANT: KOMORIYA, AKIRA  
 4 PACKARD, BEVERLY S.  
 6 <120> TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME  
 7 ACTIVITY IN BIOLOGICAL SAMPLES  
 9 <130> FILE REFERENCE: 300-948600US  
 11 <140> CURRENT APPLICATION NUMBER: 09/747,287A  
 12 <141> CURRENT FILING DATE: 2000-12-22  
 14 <150> PRIOR APPLICATION NUMBER: US 09/349,019  
 15 <151> PRIOR FILING DATE: 1999-09-10  
 17 <150> PRIOR APPLICATION NUMBER: US08/802,981  
 18 <151> PRIOR FILING DATE: 1997-02-20  
 20 <150> PRIOR APPLICATION NUMBER: PCT/US00/24882  
 21 <151> PRIOR FILING DATE: 2000-09-11  
 23 <160> NUMBER OF SEQ ID NOS: 246  
 25 <170> SOFTWARE: PatentIn version 3.3  
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 28 <211> LENGTH: 9  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Artificial  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Synthetic peptide.  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: misc\_feature  
 38 <222> LOCATION: (5)...(5)  
 39 <223> OTHER INFORMATION: Xaa is norleucine  
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 44 1 5  
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 48 <211> LENGTH: 5  
 49 <212> TYPE: PRT  
 50 <213> ORGANISM: Artificial  
 52 <220> FEATURE:  
 53 <223> OTHER INFORMATION: Synthetic peptide.  
 55 <400> SEQUENCE: 2  
 57 Ile Pro Met Ser Ile  
 58 1 5  
 61 <210> SEQ ID NO: 3  
 62 <211> LENGTH: 4  
 63 <212> TYPE: PRT  
 64 <213> ORGANISM: Artificial  
 66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: Synthetic peptide.

RAW SEQUENCE LISTING  
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Input Set : A:\PTO.AMC.txt  
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69 <400> SEQUENCE: 3  
71 Pro Met Ser Ile  
72 1  
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76 <211> LENGTH: 4  
77 <212> TYPE: PRT  
78 <213> ORGANISM: Artificial  
80 <220> FEATURE:  
81 <223> OTHER INFORMATION: Synthetic peptide.  
84 <220> FEATURE:  
85 <221> NAME/KEY: misc\_feature  
86 <222> LOCATION: (2)..(2)  
87 <223> OTHER INFORMATION: Xaa is norleucine  
89 <400> SEQUENCE: 4  
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92 1  
95 <210> SEQ ID NO: 5  
96 <211> LENGTH: 9  
97 <212> TYPE: PRT  
98 <213> ORGANISM: Artificial  
100 <220> FEATURE:  
101 <223> OTHER INFORMATION: Synthetic peptide.  
104 <220> FEATURE:  
105 <221> NAME/KEY: misc\_feature  
106 <222> LOCATION: (5)..(5)  
107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
109 <220> FEATURE:  
110 <221> NAME/KEY: misc\_feature  
111 <222> LOCATION: (8)..(8)  
112 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
114 <220> FEATURE:  
115 <221> NAME/KEY: misc\_feature  
116 <222> LOCATION: (9)..(9)  
117 <223> OTHER INFORMATION: Xaa is Cys or Lys  
119 <400> SEQUENCE: 5  
**W--> 121 Asp Ala Ile Pro Xaa Ser Ile Xaa Xaa**  
122 1 5  
125 <210> SEQ ID NO: 6  
126 <211> LENGTH: 9  
127 <212> TYPE: PRT  
128 <213> ORGANISM: Artificial  
130 <220> FEATURE:  
131 <223> OTHER INFORMATION: Synthetic peptide.  
134 <220> FEATURE:  
135 <221> NAME/KEY: misc\_feature  
136 <222> LOCATION: (2)..(2)  
137 <223> OTHER INFORMATION: Xaa is Met, alpha-aminoisobutyric acid, or Pro  
139 <220> FEATURE:  
140 <221> NAME/KEY: misc\_feature

RAW SEQUENCE LISTING DATE: 08/13/2004  
 PATENT APPLICATION: US/09/747,287A TIME: 11:40:58

Input Set : A:\PTO.AMC.txt  
 Output Set: N:\CRF4\08132004\I747287A.raw

141 <222> LOCATION: (3)..(3)  
 142 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro  
 144 <220> FEATURE:  
 145 <221> NAME/KEY: misc\_feature  
 146 <222> LOCATION: (8)..(8)  
 147 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
 149 <220> FEATURE:  
 150 <221> NAME/KEY: misc\_feature  
 151 <222> LOCATION: (9)..(9)  
 152 <223> OTHER INFORMATION: Xaa is Cys or Lys  
 154 <400> SEQUENCE: 6

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157 1 5  
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 161 <211> LENGTH: 9  
 162 <212> TYPE: PRT  
 163 <213> ORGANISM: Artificial  
 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: Synthetic peptide.  
 169 <220> FEATURE:  
 170 <221> NAME/KEY: misc\_feature  
 171 <222> LOCATION: (2)..(2)  
 172 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid or Ala  
 174 <220> FEATURE:  
 175 <221> NAME/KEY: misc\_feature  
 176 <222> LOCATION: (3)..(3)  
 177 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: misc\_feature  
 181 <222> LOCATION: (6)..(6)  
 182 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 184 <220> FEATURE:  
 185 <221> NAME/KEY: misc\_feature  
 186 <222> LOCATION: (8)..(8)  
 187 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
 189 <220> FEATURE:  
 190 <221> NAME/KEY: misc\_feature  
 191 <222> LOCATION: (9)..(9)  
 192 <223> OTHER INFORMATION: Xaa is Cys or Lys  
 194 <400> SEQUENCE: 7

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197 1 5  
 200 <210> SEQ ID NO: 8  
 201 <211> LENGTH: 9  
 202 <212> TYPE: PRT  
 203 <213> ORGANISM: Artificial  
 205 <220> FEATURE:  
 206 <223> OTHER INFORMATION: Synthetic peptide.  
 209 <220> FEATURE:

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/747,287A

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TIME: 11:40:58

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

210 <221> NAME/KEY: misc\_feature  
211 <222> LOCATION: (2)..(2)  
212 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid  
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216 <222> LOCATION: (3)..(3)  
217 <223> OTHER INFORMATION: Xaa is Ser, alpha-aminoisobutyric acid, or Pro  
219 <220> FEATURE:  
220 <221> NAME/KEY: misc\_feature  
221 <222> LOCATION: (5)..(5)  
222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
224 <220> FEATURE:  
225 <221> NAME/KEY: misc\_feature  
226 <222> LOCATION: (8)..(8)  
227 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
229 <220> FEATURE:  
230 <221> NAME/KEY: misc\_feature  
231 <222> LOCATION: (9)..(9)  
232 <223> OTHER INFORMATION: Xaa is Cys or Lys  
234 <400> SEQUENCE: 8

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237 1 5  
240 <210> SEQ ID NO: 9  
241 <211> LENGTH: 9  
242 <212> TYPE: PRT  
243 <213> ORGANISM: Artificial  
245 <220> FEATURE:  
246 <223> OTHER INFORMATION: Synthetic peptide.  
249 <220> FEATURE:  
250 <221> NAME/KEY: misc\_feature  
251 <222> LOCATION: (2)..(2)  
252 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Ile  
254 <220> FEATURE:  
255 <221> NAME/KEY: misc\_feature  
256 <222> LOCATION: (3)..(3)  
257 <223> OTHER INFORMATION: Xaa is Ala, alpha-aminoisobutyric acid, or Pro  
259 <220> FEATURE:  
260 <221> NAME/KEY: misc\_feature  
261 <222> LOCATION: (8)..(8)  
262 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
264 <220> FEATURE:  
265 <221> NAME/KEY: misc\_feature  
266 <222> LOCATION: (9)..(9)  
267 <223> OTHER INFORMATION: Xaa is Cys or Lys  
269 <400> SEQUENCE: 9

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272 1 5  
275 <210> SEQ ID NO: 10  
276 <211> LENGTH: 9

RAW SEQUENCE LISTING DATE: 08/13/2004  
PATENT APPLICATION: US/09/747,287A TIME: 11:40:58

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\08132004\I747287A.raw

277 <212> TYPE: PRT  
278 <213> ORGANISM: Artificial  
280 <220> FEATURE:  
281 <223> OTHER INFORMATION: Synthetic peptide.  
284 <220> FEATURE:  
285 <221> NAME/KEY: misc\_feature  
286 <222> LOCATION: (2)..(2)  
287 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid  
289 <220> FEATURE:  
290 <221> NAME/KEY: misc\_feature  
291 <222> LOCATION: (3)..(3)  
292 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro  
294 <220> FEATURE:  
295 <221> NAME/KEY: misc\_feature  
296 <222> LOCATION: (8)..(8)  
297 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
299 <220> FEATURE:  
300 <221> NAME/KEY: misc\_feature  
301 <222> LOCATION: (9)..(9)  
302 <223> OTHER INFORMATION: Xaa is Cys or Lys  
304 <400> SEQUENCE: 10

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307 1 5  
310 <210> SEQ ID NO: 11  
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312 <212> TYPE: PRT  
313 <213> ORGANISM: Artificial  
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316 <223> OTHER INFORMATION: Synthetic peptide.  
319 <220> FEATURE:  
320 <221> NAME/KEY: misc\_feature  
321 <222> LOCATION: (2)..(2)  
322 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Gly  
324 <220> FEATURE:  
325 <221> NAME/KEY: misc\_feature  
326 <222> LOCATION: (3)..(3)  
327 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Pro  
329 <220> FEATURE:  
330 <221> NAME/KEY: misc\_feature  
331 <222> LOCATION: (8)..(8)  
332 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
334 <220> FEATURE:  
335 <221> NAME/KEY: misc\_feature  
336 <222> LOCATION: (9)..(9)  
337 <223> OTHER INFORMATION: Xaa is Cys or Lys  
339 <400> SEQUENCE: 11

W--> 341 Asp Xaa Xaa Leu Gly Ile Ala Xaa Xaa

342 1 5  
345 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 08/13/2004  
PATENT APPLICATION: US/09/747,287A               TIME: 11:40:59

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\08132004\I747287A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5  
Seq#:4; Xaa Pos. 2  
Seq#:5; Xaa Pos. 5,8,9  
Seq#:6; Xaa Pos. 2,3,8,9  
Seq#:7; Xaa Pos. 2,3,6,8,9  
Seq#:8; Xaa Pos. 2,3,5,8,9  
Seq#:9; Xaa Pos. 2,3,8,9  
Seq#:10; Xaa Pos. 2,3,8,9  
Seq#:11; Xaa Pos. 2,3,8,9  
Seq#:12; Xaa Pos. 2,3,8,9  
Seq#:13; Xaa Pos. 2,3,8,9  
Seq#:14; Xaa Pos. 2,3,8,9  
Seq#:15; Xaa Pos. 2,3,8,9  
Seq#:16; Xaa Pos. 2,3,8,9  
Seq#:17; Xaa Pos. 2,3,8,9  
Seq#:18; Xaa Pos. 2,3,8,9  
Seq#:19; Xaa Pos. 2,3,7,8,9  
Seq#:20; Xaa Pos. 2,3,8,9  
Seq#:21; Xaa Pos. 2,3,8,9  
Seq#:22; Xaa Pos. 2,3,8,9  
Seq#:23; Xaa Pos. 2,3,8,9  
Seq#:24; Xaa Pos. 2,3,8,9  
Seq#:25; Xaa Pos. 2,3,8,9  
Seq#:26; Xaa Pos. 2,3,8,9  
Seq#:27; Xaa Pos. 2,3,8,9  
Seq#:28; Xaa Pos. 2,3,8,9  
Seq#:29; Xaa Pos. 2,3,8,9  
Seq#:30; Xaa Pos. 2,3,8,9  
Seq#:31; Xaa Pos. 2,3,8,9  
Seq#:32; Xaa Pos. 2,3,8,9  
Seq#:33; Xaa Pos. 2,3,8,9  
Seq#:34; Xaa Pos. 2,3,8,9  
Seq#:46; Xaa Pos. 6  
Seq#:48; Xaa Pos. 4  
Seq#:49; Xaa Pos. 4  
Seq#:51; Xaa Pos. 4,14  
Seq#:52; Xaa Pos. 4,14,16  
Seq#:53; Xaa Pos. 4,6,15  
Seq#:54; Xaa Pos. 4  
Seq#:55; Xaa Pos. 13  
Seq#:56; Xaa Pos. 4,14,16  
Seq#:57; Xaa Pos. 4,14  
Seq#:58; Xaa Pos. 4,7,14  
Seq#:59; Xaa Pos. 4,6,9,14

RAW SEQUENCE LISTING ERROR SUMMARY                   DATE: 08/13/2004  
PATENT APPLICATION: US/09/747,287A                   TIME: 11:40:59

Input Set : A:\PTO.AMC.txt  
Output Set: N:\CRF4\08132004\I747287A.raw

Seq#:60; Xaa Pos. 4,14  
Seq#:61; Xaa Pos. 4,14  
Seq#:62; Xaa Pos. 4,14  
Seq#:63; Xaa Pos. 4,14  
Seq#:64; Xaa Pos. 4,14  
Seq#:65; Xaa Pos. 4,5,14,15  
Seq#:66; Xaa Pos. 4,14

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51  
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75  
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99  
Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117  
Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135  
Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153  
Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171  
Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189  
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Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225  
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## VERIFICATION SUMMARY

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Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\08132004\I747287A.raw

L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:1151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:1325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
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L:1383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
L:1426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0  
L:1460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0  
L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0  
L:1514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
L:1538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0  
L:1572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
L:1670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0  
L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0  
L:1728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0  
L:1757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0  
L:1786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/747,287A

DATE: 08/13/2004

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Input Set : A:\PTO.AMC.txt

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L:1815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0  
L:1844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/747,287A

DATE: 08/12/2004

TIME: 15:22:38

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Output Set: N:\CRF4\08122004\I747287A.raw

3 <110> APPLICANT: KOMORIYA, AKIRA  
 4 PACKARD, BEVERLY S.  
 6 <120> TITLE OF INVENTION: HOMO-DOUBLY LABELED COMPOSITIONS FOR THE DETECTION OF ENZYME  
 7 ACTIVITY IN BIOLOGICAL SAMPLES  
 9 <130> FILE REFERENCE: 300-948600US  
 11 <140> CURRENT APPLICATION NUMBER: 09/747,287A  
 12 <141> CURRENT FILING DATE: 2000-12-22  
 14 <150> PRIOR APPLICATION NUMBER: US 09/349,019  
 15 <151> PRIOR FILING DATE: 1999-09-10  
 17 <150> PRIOR APPLICATION NUMBER: US08/802,981  
 18 <151> PRIOR FILING DATE: 1997-02-20  
 20 <150> PRIOR APPLICATION NUMBER: PCT/US00/24882  
 21 <151> PRIOR FILING DATE: 2000-09-11  
 23 <160> NUMBER OF SEQ ID NOS: 246  
 25 <170> SOFTWARE: PatentIn version 3.3  
 27 <210> SEQ ID NO: 1  
 28 <211> LENGTH: 9  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Artificial  
 32 <220> FEATURE:  
 33 <223> OTHER INFORMATION: Synthetic peptide.  
 36 <220> FEATURE:  
 37 <221> NAME/KEY: misc\_feature  
 38 <222> LOCATION: (5)..(5)  
 39 <223> OTHER INFORMATION: Xaa is norleucine  
 41 <400> SEQUENCE: 1  
 W--> 43 Asp Ala Ile Pro Xaa Ser Ile Pro Cys  
 44 1 5  
 47 <210> SEQ ID NO: 2  
 48 <211> LENGTH: 5  
 49 <212> TYPE: PRT  
 50 <213> ORGANISM: Artificial  
 52 <220> FEATURE:  
 53 <223> OTHER INFORMATION: Synthetic peptide.  
 55 <400> SEQUENCE: 2  
 57 Ile Pro Met Ser Ile  
 58 1 5  
 61 <210> SEQ ID NO: 3  
 62 <211> LENGTH: 4  
 63 <212> TYPE: PRT  
 64 <213> ORGANISM: Artificial  
 66 <220> FEATURE:  
 67 <223> OTHER INFORMATION: Synthetic peptide.

Does Not Comply  
 Corrected Diskette Needed

P4

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/747,287A

DATE: 08/12/2004

TIME: 15:22:38

Input Set : A:\300-948600US.txt

Output Set: N:\CRF4\08122004\I747287A.raw

69 <400> SEQUENCE: 3  
71 Pro Met Ser Ile  
72 1  
75 <210> SEQ ID NO: 4  
76 <211> LENGTH: 4  
77 <212> TYPE: PRT  
78 <213> ORGANISM: Artificial  
80 <220> FEATURE:  
81 <223> OTHER INFORMATION: Synthetic peptide.  
84 <220> FEATURE:  
85 <221> NAME/KEY: misc\_feature  
86 <222> LOCATION: (2)..(2)  
87 <223> OTHER INFORMATION: Xaa is norleucine  
89 <400> SEQUENCE: 4

W--&gt; 91 Pro Xaa Ser Ile

92 1  
95 <210> SEQ ID NO: 5  
96 <211> LENGTH: 9  
97 <212> TYPE: PRT  
98 <213> ORGANISM: Artificial  
100 <220> FEATURE:  
101 <223> OTHER INFORMATION: Synthetic peptide.  
104 <220> FEATURE:  
105 <221> NAME/KEY: misc\_feature  
106 <222> LOCATION: (5)..(5)  
107 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
109 <220> FEATURE:  
110 <221> NAME/KEY: misc\_feature  
111 <222> LOCATION: (8)..(8)  
112 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
114 <220> FEATURE:  
115 <221> NAME/KEY: misc\_feature  
116 <222> LOCATION: (9)..(9)  
117 <223> OTHER INFORMATION: Xaa is Cys or Lys  
119 <400> SEQUENCE: 5

W--&gt; 121 Asp Ala Ile Pro Xaa Ser Ile Xaa Xaa

122 1 5  
125 <210> SEQ ID NO: 6  
126 <211> LENGTH: 9  
127 <212> TYPE: PRT  
128 <213> ORGANISM: Artificial  
130 <220> FEATURE:  
131 <223> OTHER INFORMATION: Synthetic peptide.  
134 <220> FEATURE:  
135 <221> NAME/KEY: misc\_feature  
136 <222> LOCATION: (2)..(2)  
137 <223> OTHER INFORMATION: Xaa is Met, alpha-aminoisobutyric acid, or Pro  
139 <220> FEATURE:  
140 <221> NAME/KEY: misc\_feature

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/747,287A

DATE: 08/12/2004  
 TIME: 15:22:38

Input Set : A:\300-948600US.txt  
 Output Set: N:\CRF4\08122004\I747287A.raw

141 <222> LOCATION: (3)..(3)  
 142 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro  
 144 <220> FEATURE:  
 145 <221> NAME/KEY: misc\_feature  
 146 <222> LOCATION: (8)..(8)  
 147 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
 149 <220> FEATURE:  
 150 <221> NAME/KEY: misc\_feature  
 151 <222> LOCATION: (9)..(9)  
 152 <223> OTHER INFORMATION: Xaa is Cys or Lys  
 154 <400> SEQUENCE: 6

W--> 156 Asp Xaa Xaa Gly Arg Thr Gly Xaa Xaa

157 1 5  
 160 <210> SEQ ID NO: 7  
 161 <211> LENGTH: 9  
 162 <212> TYPE: PRT  
 163 <213> ORGANISM: Artificial  
 165 <220> FEATURE:  
 166 <223> OTHER INFORMATION: Synthetic peptide.  
 169 <220> FEATURE:  
 170 <221> NAME/KEY: misc\_feature  
 171 <222> LOCATION: (2)..(2)  
 172 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid or Ala  
 174 <220> FEATURE:  
 175 <221> NAME/KEY: misc\_feature  
 176 <222> LOCATION: (3)..(3)  
 177 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro  
 179 <220> FEATURE:  
 180 <221> NAME/KEY: misc\_feature  
 181 <222> LOCATION: (6)..(6)  
 182 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 184 <220> FEATURE:  
 185 <221> NAME/KEY: misc\_feature  
 186 <222> LOCATION: (8)..(8)  
 187 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
 189 <220> FEATURE:  
 190 <221> NAME/KEY: misc\_feature  
 191 <222> LOCATION: (9)..(9)  
 192 <223> OTHER INFORMATION: Xaa is Cys or Lys  
 194 <400> SEQUENCE: 7

W--> 196 Asp Xaa Xaa Phe Cys Xaa Leu Xaa Xaa

197 1 5  
 200 <210> SEQ ID NO: 8  
 201 <211> LENGTH: 9  
 202 <212> TYPE: PRT  
 203 <213> ORGANISM: Artificial  
 205 <220> FEATURE:  
 206 <223> OTHER INFORMATION: Synthetic peptide.  
 209 <220> FEATURE:

RAW SEQUENCE LISTING  
 PATENT APPLICATION: US/09/747,287A

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 TIME: 15:22:38

Input Set : A:\300-948600US.txt  
 Output Set: N:\CRF4\08122004\I747287A.raw

210 <221> NAME/KEY: misc\_feature  
 211 <222> LOCATION: (2)..(2)  
 212 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid  
 214 <220> FEATURE:  
 215 <221> NAME/KEY: misc\_feature  
 216 <222> LOCATION: (3)..(3)  
 217 <223> OTHER INFORMATION: Xaa is Ser, alpha-aminoisobutyric acid, or Pro  
 219 <220> FEATURE:  
 220 <221> NAME/KEY: misc\_feature  
 221 <222> LOCATION: (5)..(5)  
 222 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 224 <220> FEATURE:  
 225 <221> NAME/KEY: misc\_feature  
 226 <222> LOCATION: (8)..(8)  
 227 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
 229 <220> FEATURE:  
 230 <221> NAME/KEY: misc\_feature  
 231 <222> LOCATION: (9)..(9)  
 232 <223> OTHER INFORMATION: Xaa is Cys or Lys  
 234 <400> SEQUENCE: 8  
**W--> 236 Asp Xaa Xaa Arg Xaa Ser Leu Xaa Xaa**  
 237 1 5  
 240 <210> SEQ ID NO: 9  
 241 <211> LENGTH: 9  
 242 <212> TYPE: PRT  
 243 <213> ORGANISM: Artificial  
 245 <220> FEATURE:  
 246 <223> OTHER INFORMATION: Synthetic peptide.  
 249 <220> FEATURE:  
 250 <221> NAME/KEY: misc\_feature  
 251 <222> LOCATION: (2)..(2)  
 252 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Ile  
 254 <220> FEATURE:  
 255 <221> NAME/KEY: misc\_feature *Ala*  
 256 <222> LOCATION: (3)..(3)  
 257 <223> OTHER INFORMATION: Xaa is *Alar*, alpha-aminoisobutyric acid, or Pro  
 259 <220> FEATURE:  
 260 <221> NAME/KEY: misc\_feature  
 261 <222> LOCATION: (8)..(8)  
 262 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
 264 <220> FEATURE:  
 265 <221> NAME/KEY: misc\_feature  
 266 <222> LOCATION: (9)..(9)  
 267 <223> OTHER INFORMATION: Xaa is Cys or Lys  
 269 <400> SEQUENCE: 9  
**W--> 271 Asp Xaa Xaa Gly Arg Ser Leu Xaa Xaa**  
 272 1 5  
 275 <210> SEQ ID NO: 10  
 276 <211> LENGTH: 9

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/747,287A

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TIME: 15:22:38

Input Set : A:\300-948600US.txt  
Output Set: N:\CRF4\08122004\I747287A.raw

277 <212> TYPE: PRT  
278 <213> ORGANISM: Artificial  
280 <220> FEATURE:  
281 <223> OTHER INFORMATION: Synthetic peptide.  
284 <220> FEATURE:  
285 <221> NAME/KEY: misc\_feature  
286 <222> LOCATION: (2)..(2)  
287 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid  
289 <220> FEATURE:  
290 <221> NAME/KEY: misc\_feature  
291 <222> LOCATION: (3)..(3)  
292 <223> OTHER INFORMATION: Xaa is Thr, alpha-aminoisobutyric acid, or Pro  
294 <220> FEATURE:  
295 <221> NAME/KEY: misc\_feature  
296 <222> LOCATION: (8)..(8)  
297 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
299 <220> FEATURE:  
300 <221> NAME/KEY: misc\_feature  
301 <222> LOCATION: (9)..(9)  
302 <223> OTHER INFORMATION: Xaa is Cys or Lys  
304 <400> SEQUENCE: 10

W--> 306 Asp Xaa Xaa Leu Leu Ser Leu Xaa Xaa

307 1 5  
310 <210> SEQ ID NO: 11  
311 <211> LENGTH: 9  
312 <212> TYPE: PRT  
313 <213> ORGANISM: Artificial  
315 <220> FEATURE:  
316 <223> OTHER INFORMATION: Synthetic peptide.  
319 <220> FEATURE:  
320 <221> NAME/KEY: misc\_feature  
321 <222> LOCATION: (2)..(2)  
322 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Gly  
324 <220> FEATURE:  
325 <221> NAME/KEY: misc\_feature  
326 <222> LOCATION: (3)..(3)  
327 <223> OTHER INFORMATION: Xaa is alpha-aminoisobutyric acid, or Pro  
329 <220> FEATURE:  
330 <221> NAME/KEY: misc\_feature  
331 <222> LOCATION: (8)..(8)  
332 <223> OTHER INFORMATION: Xaa is Pro or alpha-aminoisobutyric acid  
334 <220> FEATURE:  
335 <221> NAME/KEY: misc\_feature  
336 <222> LOCATION: (9)..(9)  
337 <223> OTHER INFORMATION: Xaa is Cys or Lys  
339 <400> SEQUENCE: 11

W--> 341 Asp Xaa Xaa Leu Gly Ile Ala Xaa Xaa

342 1 5  
345 <210> SEQ ID NO: 12

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/747,287A

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Input Set : A:\300-948600US.txt  
Output Set: N:\CRF4\08122004\I747287A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5  
Seq#:4; Xaa Pos. 2  
Seq#:5; Xaa Pos. 5,8,9  
Seq#:6; Xaa Pos. 1,1,8,9  
Seq#:7; Xaa Pos. 2,3,6,8,9  
Seq#:8; Xaa Pos. 2,3,5,8,9  
Seq#:9; Xaa Pos. 2,3,8,9  
Seq#:10; Xaa Pos. 2,3,8,9  
Seq#:11; Xaa Pos. 2,3,8,9  
Seq#:12; Xaa Pos. 2,3,8,9  
Seq#:13; Xaa Pos. 2,3,8,9  
Seq#:14; Xaa Pos. 2,3,8,9  
Seq#:15; Xaa Pos. 2,3,8,9  
Seq#:16; Xaa Pos. 2,3,8,9  
Seq#:17; Xaa Pos. 2,3,8,9  
Seq#:18; Xaa Pos. 2,3,8,9  
Seq#:19; Xaa Pos. 2,3,7,8,9  
Seq#:20; Xaa Pos. 2,3,8,9  
Seq#:21; Xaa Pos. 2,3,8,9  
Seq#:22; Xaa Pos. 2,3,8,9  
Seq#:23; Xaa Pos. 2,3,8,9  
Seq#:24; Xaa Pos. 2,3,8,9  
Seq#:25; Xaa Pos. 2,3,8,9  
Seq#:26; Xaa Pos. 2,3,8,9  
Seq#:27; Xaa Pos. 2,3,8,9  
Seq#:28; Xaa Pos. 2,3,8,9  
Seq#:29; Xaa Pos. 2,3,8,9  
Seq#:30; Xaa Pos. 2,3,8,9  
Seq#:31; Xaa Pos. 2,3,8,9  
Seq#:32; Xaa Pos. 2,3,8,9  
Seq#:33; Xaa Pos. 2,3,8,9  
Seq#:34; Xaa Pos. 2,3,8,9  
Seq#:46; Xaa Pos. 6  
Seq#:48; Xaa Pos. 4  
Seq#:49; Xaa Pos. 4  
Seq#:51; Xaa Pos. 4,14  
Seq#:52; Xaa Pos. 4,14,16  
Seq#:53; Xaa Pos. 4,6,15  
Seq#:54; Xaa Pos. 4  
Seq#:55; Xaa Pos. 13  
Seq#:56; Xaa Pos. 4,14,16  
Seq#:57; Xaa Pos. 4,14  
Seq#:58; Xaa Pos. 4,7,14  
Seq#:59; Xaa Pos. 4,6,9,14

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/747,287A

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Input Set : A:\300-948600US.txt  
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Seq#:60; Xaa Pos. 4,14  
Seq#:61; Xaa Pos. 4,14  
Seq#:62; Xaa Pos. 4,14  
Seq#:63; Xaa Pos. 4,14  
Seq#:64; Xaa Pos. 4,14  
Seq#:65; Xaa Pos. 4,5,14,15  
Seq#:66; Xaa Pos. 4,14

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27  
Seq#:28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51  
Seq#:52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75  
Seq#:76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99  
Seq#:100,101,102,103,104,105,106,107,108,109,110,111,112,113,114,115,116,117  
Seq#:118,119,120,121,122,123,124,125,126,127,128,129,130,131,132,133,134,135  
Seq#:136,137,138,139,140,141,142,143,144,145,146,147,148,149,150,151,152,153  
Seq#:154,155,156,157,158,159,160,161,162,163,164,165,166,167,168,169,170,171  
Seq#:172,173,174,175,176,177,178,179,180,181,182,183,184,185,186,187,188,189  
Seq#:190,191,192,193,194,195,196,197,198,199,200,201,202,203,204,205,206,207  
Seq#:208,209,210,211,212,213,214,215,216,217,218,219,220,221,222,223,224,225  
Seq#:226,227,228,229,230,231,232,233,234,235,236,237,238,239,240,241,242,243  
Seq#:244,245,246

**VERIFICATION SUMMARY**

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Input Set : A:\300-948600US.txt  
 Output Set: N:\CRF4\08122004\I747287A.raw

L:43 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
 L:91 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
 L:121 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
 L:156 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
 L:196 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
 L:236 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
 L:271 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
 L:306 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
 L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
 L:376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
 L:411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
 L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
 L:481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
 L:516 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
 L:551 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
 L:586 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
 L:626 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
 L:661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
 L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
 L:731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
 L:766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
 L:801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
 L:836 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
 L:871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
 L:906 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
 L:941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
 L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
 L:1011 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
 L:1046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
 L:1081 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
 L:1116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
 L:1151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
 L:1325 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
 L:1359 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48 after pos.:0  
 L:1383 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49 after pos.:0  
 L:1426 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0  
 L:1460 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:0  
 L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:0  
 L:1514 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0  
 L:1538 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55 after pos.:0  
 L:1572 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:0  
 L:1597 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:0  
 L:1631 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
 L:1670 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0  
 L:1699 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:0  
 L:1728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0  
 L:1757 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:0  
 L:1786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0

**VERIFICATION SUMMARY** DATE: 08/12/2004  
PATENT APPLICATION: US/09/747,287A TIME: 15:22:39

Input Set : A:\300-948600US.txt  
Output Set: N:\CRF4\08122004\I747287A.raw

L:1815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:0  
L:1844 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0